O/C

BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)
Unit - Dahej

Ref: BEIL/DHJ/2025-26/06

Date: 08/05/2025
PCB ID # 40137

The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector – 10 / A
Gandhinagar – 382 010

Dear Sir,

Sub: Environmental Statement for the year 2024-25.

We are forwarding herewith Environmental Statement for our TSDF Facility (Centralized Secured Landfill Facility), Common Incineration plant, Multi Effect Evaporator plant and Drum Decontamination facility situated at BEIL, Plot No D-43 G.I.D.C, Dahej, Ta: Vagra. Dist. Bharuch for the period of the year 2024-25.

We are forwarding a copy of the Manifest regarding collection and disposal of waste from our member industries to GPCB Bharuch on a regular basis. For your reference we have attached here with Borewell results as Annexure 1, Soil result as Annexure 2, Dioxin- Furan result as Annexure 3 and Ambient Air-Stack result as Annexure 4.

We have received the following CTE & CCA Amendment from GPCB during the last year.

1. CCA Amendment vide consent no. AH-136911 for Cell 11,12,13.
2. CCA Amendment vide consent no. AH-139683 for Pre-processing Facility.
3. CTE Amendment vide consent no. CTE-139612 for Capacity enhancement of secured landfill facility.
4. CTE Amendment vide consent no. CTE-142041 for Common spray dryer.

Also, we would like to bring your kind attention that our laboratory has been accredited by NABL & approved by MoEF&CC. We also have implemented ISO 14001:2015 & ISO 45001:2018 certification for Environmental Management system and Occupational Health and safety standards.

We hope that the above is in order.

Thanking you
Yours faithfully
For, **BEIL Infrastructure Ltd**

Authorized Signatory

14/5/25
Post Received
Gujarat Pollution Control Board
BHARUCH

CC:

1. **Regional Office**
   Gujarat Pollution Control Board, Bh
2. **Unit Head- Hazardous waste cell**
   Gujarat Pollution Control Board, Ga

RG480632747IN IVR:8271480632747
RL DAHEJ SO (392130)
Counter No:2,13/05/2025,11:56
To:UNIT HEAD,HAZARDOUS WASTE CELL
PIN:382010, Gandhinagar Gujarat HO
From:BEIL INFRAS,DAHEJ
Wt:140gms Ack Fee:3.00,REG=17.0
Amt:64.90,Tax:9.90,Amt.Paid:65.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868)(Wear mask -Stay safe)

RG480632870IN IVR:8271480632870
RL DAHEJ SO (392130)
Counter No:2,13/05/2025,11:56
To:THE MEMBER SECRETARY,G P C B
PIN:382010, Gandhinagar Gujarat HO
From:BEIL INFRAS,DAHEJ
Wt:140gms Ack Fee:3.00,REG=17.0
Amt:64.90,Tax:9.90,Amt.Paid:65.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868)(Wear mask -Stay safe)

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road
Phone : (02641) 291129, E-mail : mistryrg@beil
Regd. Office : Plot No. 9701-16, GIDC Estate, F
Phones (02646) 253135, 225228 Fax : (02642)

ENVIRONMENTAL STATEMENT

Environmental Statement for the financial year ending 31st March 2025

PART - A

<table>
<tr><td rowspan="2">01</td><td colspan="2" rowspan="2">Name and address of the owner/occupier of the industry/operation or process</td><td>Director – Mr. Ashok Panjwani
Operator – Mr. B.D. Dalwadi</td></tr>
<tr><td>BEIL Infrastructure Ltd
Plot # D-43, GIDC, Dahej, Ta : Vagra
Dist : Bharuch</td></tr>
<tr><td>02</td><td>Industry Category</td><td>Primary – STC Code</td><td>-</td></tr>
<tr><td></td><td></td><td>Secondary–SIC Code</td><td>-</td></tr>
<tr><td>03</td><td>Production capacity</td><td colspan="2">Units
<table>
<tr><th>No.</th><th>Product</th><th>Capacity</th></tr>
<tr><td>1.</td><td>Secured landfill site</td><td>1,65,400 MT Cell-1 (Closed)
3,12,960 MT Cell 2& 5 (Partially Closed)
1,65,689 MT Cell-3 (Capacity reach)
1,75,385 MT Cell-4 (Capacity reach)
2,61,312 MT Cell-6 (Capacity reach)
1,19,468 MT Cell-7 (Capacity reach)
1,05,942 MT Cell-8 (Operation)
94,708 MT Cell-9 (Operation)
1,29,815 MT Cell-10 (Operation)
76,369 MT Cell-11 (Operation)
1,88,948 MT Cell-12 (Operation)
1,04,004 MT Cell-13 (Operation)</td></tr>
<tr><td>2.</td><td>Multiple Effect Evaporator (MEE)</td><td>200 KLD</td></tr>
<tr><td>3.</td><td>De-Contaminated & De-toxified packing material (drum, carboy, liners etc.)</td><td>2,10,240 Nos/Year</td></tr>
<tr><td>4.</td><td>De-contaminated & Detoxification of tankers</td><td>36,000 Nos/Yr</td></tr>
<tr><td>5.</td><td>Incineration Facility</td><td>12 Million Kcal/Hr</td></tr>
<tr><td>6.</td><td>Pre-Processing Facility</td><td>Waste mix Liquid – 22,930 MTPA
Waste mix Solid – 3566 MTPA</td></tr>
</table>
It is a TSDF Facility (Common Secured Landfill Facility)</td></tr>
</table>

04	Year of establishment	2015
05	Date of the last Environmental Statement submitted	29.05.2024

PART – B

Water and Raw material Consumption

01. Water consumption m^3/day

01	Water Consumption	171.81 m^3/day
02	Process	22.95 m^3/day
03	Domestic	23.83 m^3/day
04	Biodegradable	125.03 m^3/day

Sr. No.	Name of Products (*)	Process Water Consumption per unit of product output	
		During the previous financial year	During the current financial year

Sr. No.	Facility	Actual Qty. during the year 2024-25
1.	Secured landfill site	3,48,918.355 MT (received)
2.	MEE	39,705.86 MT (Evaporated)
3.	De-Contaminated & Disposal system	82,396 Nos.
4.	De-contaminated & Detoxification of tankers	--
5.	Incineration	13,547.155 MT (Incinerated)
6.	Pre-processing Facility	503.12 MT (sent to Cement industries for co-process)

Note:
There is no manufacturing activity as this is a TSDF Facility

(*) Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.

02 Raw Material Consumption

Sr. No.	Name of Products (*)	Consumption of raw material (in Kgs)	
		During the previous financial year	**During the current financial year**
1.	(Common secured Landfill Facility & Common Incinerator Facility)	Fly Ash: 47,84,900 KG Cement: 19,63,900 KG Lime: 25,95,980.000 KG Caustic: 17,76,209.550 KG Activated carbon: 10,056 KG	Fly Ash: 11,53,730 KG Cement: 4,46,630 KG Lime: 19,08,903 KG Caustic: 16,32,021 KG Activated carbon: 12,042 KG
It is a TSDF Facility (Common Secured Landfill & Incineration Facility)			

PART - C

Pollution discharged to environment/unit of output

(Parameters as specified in the Consent issued)

Sr. No.	Pollution	Quantity of pollutants discharged (Mass/day)	Concentrations of pollutants in discharges (mass / volume)	Percentage of variation from prescribed Standards with reasons
A	Water	BEIL, Dahej is a ZLD unit, the leachate generated is being treated in MEE and MEE condensate is treated in ETP (MAP+ RO). The permeate is used within the premises.		
B	Air	**Incinerator stack**		
		PM	35.73 Kg/day	26.02 mg/m3	-47.97%
		HCl	4.43 Kg/day	3.22 mg/m3	-93.56%
		SO2	1.61 Kg/day	99.41 mg/m3	-99.41%
		NOx (NO and NO2)	10.69 Kg/day	7.78 mg/m3	-98.05%
		CO	16.22 Kg/day	11.81 mg/m3	-88.19%
		Spray dryer stack		
		PM	24.50 Kg/day	33.01 mg/m^3	-77.99%
		SO2	1.11 kg/day	1.50 mg/nm^3	-98.50 %
		NOx	15.81 Kg/day	21.30 mg/m^3	-57.40%
		Stabilization scrubber stack		
		PM	9.86 Kg/day	15.45 mg/m^3	-89.70%
		HCL	-	Not detectable	-
		*Detection Limit: PM : 10 mg/Nm3, HCl :0.2 mg/Nm3, Cl_2 :0.2 mg/Nm3		
		Drum Decontamination scrubber stack:		
		PM	14.41 Kg/day	8.28 mg/m^3	-94.48%
		PM, HCL & Cl_2 were below detection limit.		
		*Detection Limit: HCl :0.2 mg/Nm3, Cl_2 :0.2 mg/Nm3		

Part – D
Hazardous Waste

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.)

Hazardous Wastes		Total Quantity (MT)	
		During the previous financial year 2023-24	During the current financial year 2024-25
A	From Process	(*)	(*)
	From pollution control facilities (generation)	**5171.32 MT** MEE salt & ETP Sludge. **9790.82 KL** of leachate water generated from landfilling was treated in the MEE plant. **23,920 KL** Condensate generated from MEE and treated in the ETP plant. **2.740 MT** Residue was generated from the drum-decontamination plant. **0.085 KLPA** Used Oil generated. **2433.27 MT** Qty Ash is generated from the Combustion chamber & WHRB. **5462.29 MT** from Lime ash generated from incineration plant.	**5267.73 MT** MEE salt & ETP Sludge. **22318.18 KL** of leachate water generated from landfilling treated in the MEE plant. **18,922 KL** Condensate generated from MEE and treated in the ETP plant. **0.03 MT** Residue generated from the drum- decontamination plant. **0.076 KLPA** Used Oil generated. **2174.970 MT** Qty Ash generated from the Combustion chamber & WHRB. **9078.326 MT** from Lime ash generated from incineration plant.
B	Quantity re-cycled or re-utilized within the unit	**14,998 KL** RO Permeate generated and reused in gardening and other industrial activities. **5462.29 MT** of Lime ash generated from incinerator used for pre-treatment (stabilization) of Landfill waste.	**18,836 KL** RO Permeate generated and reused in gardening and other industrial activities. **9078.326 MT** of Lime ash generated from incinerator used for pre-treatment (stabilization) of Landfill waste.
	Total quantity disposed of for landfill	**Received- 3,64,852.72 MT** **Disposed- 3,55,733.66 MT**	**Received- 3,48,918.355 MT** **Disposed-3,56,697.115 MT**

	Total quantity incinerated	**15,352.56 MT**	**13,547.155 MT**
(*)	This being a TSDF Facility (Common Secured Landfill Facility), different types of wastes permitted by GPCB, are collected from member industries, and disposed at the landfill site as per CPCB guideline. Please see the attached Table for quantity disposed at the site.		

Part – E
Solid Waste

Hazardous Wastes		**Total Quantity (MT)**	
		During the previous financial year 2023-24	**During the current financial year 2024-25**
a	From Process	(*)	(*)
b	From pollution control facilities (MEE salt & ETP Sludge)		
(*)	This being a TSDF Facility (Common Secured Landfill Facility), different types of wastes permitted by GPCB, are collected from member industries, and disposed at the landfill site as per CPCB guideline. Please see the attached Table for quantity disposed at the site.		

Part – F

Please specify the characteristics (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

BEIL is receiving accepted types of waste for secured landfilling. If waste is not meeting criteria for direct landfilling, necessary treatment like neutralization / stabilization etc. are given. Leachate generated is treated at in-house MEE followed by Spray Dryer.

Part – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

The Company has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018 and helped in improving overall environmental condition and safety of the unit.

This being a TSDF Facility (Common Secured Landfill Facility), & Common Incinerator Facility), there is also a pre-processing facility. We are collecting solid / hazardous wastes from our members and treating & disposing off. We are drawing samples from every truck coming to our site and a Quick Analysis is done for pH, Moisture Content and Organic Content, Paint Filter Liquid Test etc. Also, we are verifying whether waste is uniform and is not having any obnoxious smell. Also, detailed analysis of solid / hazardous waste samples is done at the laboratory. During monsoon period, the site is kept covered. We have also provided a storage facility for keeping the solid / hazardous wastes collected during monsoon. Leachate generated from the landfill is treated in in-house MEE at BEIL Dahej.
Landfill Site (Cell-I): - Capped
Landfill Site (Cell II & V): - Partially capped
Landfill Site (Cell III & Cell IV): - Capacity Reach
Landfill Site (Cell VI): - Capacity Reach
Landfill Site (Cell VII): - Capacity Reach
Landfill Site (Cell VIII): - Operational
Landfill Site (Cell IX): - Operational
Landfill Site (Cell X): - Operational
Landfill Site (Cell XI): - Operational
Landfill Site (Cell XII): - Operational
Landfill Site (Cell XIII): - Operational

BEIL has installed multiple effect evaporation system (MEE), which is energy efficient compared to other evaporation system. We have Received CCA on 16.12.2017 and it is in operation.
BEIL Infrastructure Limited have installed one incinerator with a capacity of 12 million K cal/Hr along with Heat recovery system. Generated steam is being utilized in the Multi Effect Evaporation system (MEE) and paddle dryer system for the drying of sludge purpose. The system provided consists of Rotary kiln, Secondary Combustion Chamber, WHRB, Spray dryer adsorber (SDA), Bag Filter, Wet Scrubber, Demister, ID Fan, Chimney & Continuous Monitoring System.

We have installed solar panels above capped portion of landfill. We have generated 2,15,158 kWh unit during the year 2024-25.

Part – H

Addition measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- GPCB XGN Online manifest system implemented for all industries.
- The Laboratory at BEIL is NABL accredited.
- BEIL is also going for recognition of MoEF for Laboratory.
- Total investment for environmental protection including abatement of pollution, prevention of pollution is rupees 94,54,028.74 during the year 2024-2025. Details are as following:
    - ✓ Tarpaulin covering with LDPE sheet.
    - ✓ In Bag House of MEE plant damaged Begs had been replaced.
    - ✓ Installation and maintenance work related to CEMS.

Part – I

Any other particulars for improving the quality of the environment.

- BEIL has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018. Implementation of ISO 14001:2015 & ISO 45001:2018 has helped in improvement of the environmental protection and Safety.
- The design of secured landfill is done under the guidance of IIT, New Delhi. After construction of each cell, inspection is done by Professor from IITD.
- Lot of NGOs, community members, journalists, students, and industrialists are visiting BEIL and appreciating the operations. BEIL is exhibiting various details in front of the landfill. All the visitors are welcome.
- BEIL is maintaining a proper Manifest system as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. This helps with keeping proper records.
- The laboratory has been augmented. Laboratory got recognition of NABL.
- A green belt is developed around the periphery.
- We have installed solar panels above capped portion of landfill. We have generated 2,15,158 kWh unit during the year 2024-25.

For, **BEIL Infrastructure Limited, Dahej**

Authorized Signatory

BEIL INFRASTRUCTURE LIMITED ★ DAHEJ

ANNEXURE-I

Production during the year 2024-25 (Product Wise)

Sr. No.	Product	Consented Qty.	Actual Qty. during the year 2024-25
1	Secured Land Fill Site	19,00,000 MT	3,48,918.355 MT (Received)
2	Multi Effective Evaporator	200 KLD	39,705.86 MT (Treated)
3	Decontamination & Detoxify Facility (Drums/Barrels/Carboy)	2,10,240 Nos/Year	82,396 Nos.
4	De-contaminated & De-toxified Tanker	3000 Nos./Month	--
5	Common Incineration Facility along With Waste Heat Recovery System	12 Million Kcal/Hour	13,547.155 MT (Incinerated)
6	Pre-processing facility	Mix solid waste-3566 MT Mix liquid waste-22930 MT	503.12 MT (sent to Cement industries for co-process)

ANNEXURE – 3

WASTE GENERATION DETAILS

Cat.:35.3- MEE Salts & ETP Sludge from wastewater treatment (MEE plant)

Month	Generation of MEE Salts (MT)	Generation of chemical Sludge (MT)
April- 2024	358.280	13.770
May- 2024	364.700	13.560
June -2024	374.130	8.400
July -2024	334.650	13.380
August -2024	448.680	3.920
September -2024	163.100	6.760
October -2024	581.670	4.660
November-2024	652.850	11.620
December -2024	510.400	5.520
January- 2025	431.030	6.010
February- 2025	394.990	7.810
March – 2025	547.720	10.120
Total	**5,162.20**	**105.530**

ANNEXURE – 4

WASTE GENERATION DETAILS
Cat.:37.2- Ash from incinerator

Month	Generation		
	Burnt Ash (MT)	**Lime Ash (MT)**	**WHRB Ash**
April- 2024	145.820	728.850	8.52
May- 2024	103.710	1093.430	6.58
June -2024	156.970	349.600	7.210
July -2024	141.450	731.120	0
August -2024	124.450	827.990	0
September -2024	110.890	1055.670	0
October -2024	120.150	614.860	0
November-2024	177.030	362.340	0
December -2024	290.700	967.650	0
January- 2025	318.770	941.446	0
February- 2025	167.450	683.270	0
March – 2025	317.580	722.100	0
Total	**2174.970**	**9078.326**	**22.31**

Note: Generated Ash is disposed of immediately in the Common Secured Landfill Facility after checking its quality as per the acceptance criteria and there is no storage facility. Lime ash is used for the stabilization of Landfill waste.

ANNEXURE – 5

WASTE GENERATION DETAILS

Cat.: 5.1- Used / Spent Oil

Month	Opening stock	Generation	Disposed	Closing Stock
				All quantity in litres
April- 2024	110	5	0	115
May- 2024	115	0	0	115
June -2024	115	5	0	120
July -2024	120	0	0	120
August -2024	120	10	0	130
September -2024	130	5	0	135
October -2024	135	6	0	141
November-2024	141	10	0	151
December -2024	151	5	0	156
January- 2025	156	10	0	166
February- 2025	166	10	0	176
March – 2025	176	10	0	186
Total		**76**	**0**	

ANNEXURE-6

LANDFILLING DETAILS

QUANTITY OF SOLID / HAZARDOUS WASTE RECEIVED AND DISPOSED OFF DURING **APRIL- 2024 TO MARCH – 2025**

Opening Stock:9119.060 MT			
Sr No	**Month**	**Quantity Received (MT)**	**Quantity Disposed (MT)**
1	April- 2024	40358.766	49477.826
2	May- 2024	46438.570	46438.570
3	June -2024	28413.354	18555.049
4	July -2024	10531.420	0
5	August -2024	15708.455	0
6	September -2024	11242.120	0
7	October -2024	17398.365	17398.365
8	November-2024	34737.795	42737.795
9	December -2024	42011.725	56011.725
10	January- 2025	43898.239	54898.239
11	February- 2025	30692.745	37192.745
12	March – 2025	27486.801	33986.801
TOTAL		**3,48,918.355**	**3,56,697.115**
Closing stock: 1340.300 MT			

INCINERATION DETAILS

QUANTITY OF INCINERABLE WASTE RECEIVED AND DISPOSED OFF
DURING APRIL- 2024 TO MARCH- 2025

Opening Stock- 1623.08 MT		
Month	**Waste Received (MT)**	**Waste Incinerated (MT)**
April- 2024	999.513	1466.339
May- 2024	1203.756	1265.19
June -2024	931.225	924.854
July -2024	738.32	1387.116
August -2024	916.37	1003.704
September -2024	1095.166	1123.866
October -2024	1759.055	747.538
November-2024	1392.26	759.297
December -2024	1572.400	1127.136
January- 2025	1576.347	1613.436
February- 2025	2098.885	669.681
March – 2025	1571.735	1458.998
Total	**15855.032**	**13547.155**
Closing stock – 3,427.837 MT		

INCINERATION DETAILS

QUANTITY OF INCINERABLE WASTE RECEIVED, TREATED AND DISPOSED OFF
DURING APRIL- 2024 TO MARCH- 2025

Opening Stock:1623.080 MT

Month	Waste Received (MT)						Waste Incinerated (MT)					
	AQUEOUS	High CV	SEMI SOLID	SOLID	TARRY	TOTAL	AQUEOUS	High CV	SEMI SOLID	SOLID	TARRY	TOTAL
April- 2024	187.400	492.305	174.135	145.673	0	999.513	348.127	577.665	337.261	203.286	0	1466.33
May- 2024	98.675	625.820	265.641	213.620	0	1203.756	347.724	609.49	166.616	141.36	0	1265.19
June -2024	28.860	429.445	103.615	369.305	0	931.225	70.503	429.041	187.901	237.409	0	924.854
July -2024	28.990	311.840	181.575	215.915	0	738.32	136.944	656.827	167.261	426.084	0	1387.116
August -2024	77.385	458.930	192.635	187.420	0	916.37	75.648	570.166	150.200	207.69	0	1003.704
September -2024	42.020	518.915	154.940	379.291	0	1095.166	64.374	511.967	220.347	327.178	0	1123.866
October -2024	237.225	599.045	324.445	566.970	31.370	1759.055	113.108	383.328	64.756	183.442	2.904	747.538
November-2024	140.885	232.710	494.120	484.455	40.090	1392.26	180.82	263.317	165.581	128.223	21.356	759.297
December -2024	184.147	234.552	387.630	715.131	50.940	1572.400	237.356	293.582	207.19	379.224	9.784	1127.136
January- 2025	213.535	255.510	328.499	764.963	13.840	1576.347	236.838	123.753	358.484	857.989	36.372	1613.436
February- 2025	798.280	415.020	334.200	551.385	0	2098.885	141.317	74.123	182.455	265.704	6.082	669.681
March – 2025	231.165	383.875	401.780	548.235	6.680	1571.735	368.465	335.559	193.507	553.354	8.113	1458.998
Total	**2268.567**	**4957.967**	**3343.215**	**5142.363**	**142.920**	**15855.032**	**2321.224**	**4828.818**	**2401.559**	**3910.943**	**84.611**	**13547.155**

Note: - Total 503.12 MT waste sent for co-processing, closing stock as on (31.03.2025): 3427.837 MT

ANNEXURE – 7
WASTE GENERATION AND DISPOSED DETAILS
(Pre-Processing)

Month	Opening stock	Pre-processing	Dispatch Qty.	Closing Stock
				All quantity in MT
April- 2024	0.000	0	0	0.000
May- 2024	0.000	0	0	0.000
June -2024	0.000	0	0	0.000
July -2024	0.000	0	0	0.000
August -2024	0.000	0	0	0.000
September -2024	0.000	0	0	0.000
October -2024	0.000	0	0	0.000
November-2024	0.000	0	0	0.000
December -2024	0.000	0	0	0.000
January- 2025	0.000	0	0	0.000
February- 2025	0.000	74.81	74.81	0.000
March – 2025	0.000	428.31	428.31	0.000
Total	0	**503.12**	**503.12**	0

Note: - Waste sent for co-processing at

1. M/s JK Cement Works, Mangrol, Nimbharia, Rajasthan.
2. M/s JK Cement Works, Kailashnagar, Nimbharia, Rajasthan.
3. M/s Dalmia cement Bharat Limited, Rajagangapur, Odisha,
4. M/s Wonder Cement Limited, Chittorgarh, Rajasthan